

## Diode block - EMG 22-DIO 4E - 2950048

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Diode module, with 4 diodes, individually wired, diode type 1N 4007

### Why buy this product

- ✓ Spark-suppression diodes for limiting surge voltages of inductive loads
- ✓ Electrical decoupling of messages in fault reporting systems



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 017918 083922 |
| GTIN                                 | 4017918083922                                                                                           |
| Weight per Piece (excluding packing) | 46.130 g                                                                                                |
| Custom tariff number                 | 85411000                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 75 mm   |
| Depth  | 55 mm   |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

#### General

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### Technical data

#### General

|                                    |                                                             |
|------------------------------------|-------------------------------------------------------------|
| Diode type                         | 1 N 4007                                                    |
| Max. operating voltage             | 250 V AC                                                    |
| Peak reverse voltage per diode     | 1300 V                                                      |
| Reverse current per diode          | 5 µA                                                        |
| Conducting state voltage per diode | approx. 0.8 V                                               |
| Conducting state current per diode | 0.7 A (with single load)<br>0.5 A (with simultaneous loads) |
| Standards/specifications           | DIN EN 50178                                                |
| Overvoltage category               | III, basic insulation (as per EN 50178)                     |
| Mounting position                  | any                                                         |
| Assembly instructions              | In rows with zero spacing                                   |

#### Connection data

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.    | 4 mm <sup>2</sup>   |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 24                  |
| Conductor cross section AWG max.      | 12                  |
| Stripping length                      | 8 mm                |
| Screw thread                          | M3                  |
| Connection method                     | Screw connection    |

#### Standards and Regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
| Low Voltage Directive | 2014/35/EG   |
| Conformance           | CE-compliant |

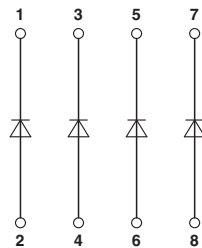
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

## Diode block - EMG 22-DIO 4E - 2950048

Circuit diagram



### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27371010 |
| eCl@ss 6.0 | 27371010 |
| eCl@ss 7.0 | 27371010 |
| eCl@ss 8.0 | 27371010 |
| eCl@ss 9.0 | 27371010 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000683 |
| ETIM 5.0 | EC000683 |
| ETIM 6.0 | EC000683 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11     | 39121008 |
| UNSPSC 12.01  | 39121008 |
| UNSPSC 13.2   | 32151504 |

### Approvals

#### Approvals

Approvals

EAC

Ex Approvals

## Diode block - EMG 22-DIO 4E - 2950048

### Approvals

#### Approval details

|     |                                                                                   |               |
|-----|-----------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-----------------------------------------------------------------------------------|---------------|

### Accessories

#### Accessories

#### Marking material - EMG-GKS 12 - 2947035



Equipment marker, width 12 mm